Name

Exponential Function Solution Equation - Decay (Discrete) Equation to Rate

1 Rearrange this equation to solve for the rate given this model of a decline of a toxin concentration (monthly dialysis)?

$$507 = 600 \cdot (1 - r)^{(2)}$$

A	$r = +(\frac{507}{600})^{\frac{1}{2}} + 1$	B	$r = -(\frac{507}{600})^{\frac{1}{2}} - 1$
C	$r = -(\frac{507}{600})^{\frac{2}{1}} - 1$		

2 Rearrange this equation to solve for the rate given this model of a decline of a bird population (yearly breeding cycle)?

$$708 = 800 \cdot (1 - r)^{(4)}$$

A $r = -(\frac{708}{800})^{\frac{1}{4}} - 1$

B $r = +(\frac{708}{800})^{\frac{1}{4}} + 1$

3 Rearrange this equation to solve for the rate given this model of a decline of a toxin concentration (weekly dialysis)?

$$260 = 300 \cdot (1 - r)^{(7)}$$

A	$r = +(\frac{260}{300})^{\frac{1}{7}} + 1$	B	$r = -(\frac{260}{300})^{\frac{1}{7}} - 1$
C	$r = -(\frac{260}{300})^{\frac{7}{1}} - 1$		

4 Rearrange this equation to solve for the rate given this model of a balance of a charitable endowment (daily disbursements)?

$$570 = 700 \cdot (1 - r)^{(4)}$$

A $r = +(\frac{570}{700})^{\frac{1}{4}} + 1$

B $r = -(\frac{570}{700})^{\frac{1}{4}} - 1$

5 Rearrange this equation to solve for the rate given this model of a balance of a charitable endowment (yearly disbursements)?

$$171 = 300 \cdot (1 - r)^{(9)}$$

A	$r = -(\frac{171}{300})^{\frac{9}{1}} - 1$	B	$r = -(\frac{171}{300})^{\frac{1}{9}} - 1$
C	$r = +(\frac{171}{300})^{\frac{1}{9}} + 1$		

6 Rearrange this equation to solve for the rate given this model of a decline of a bird population (yearly breeding cycle)?

$$335 = 600 \cdot (1 - r)^{(8)}$$

A $r = -(\frac{335}{600})^{\frac{8}{2}} - 1$

B $r = -(\frac{335}{600})^{\frac{1}{8}} - 1$

7 Rearrange this equation to solve for the rate given this model of a decline of a toxin concentration (daily dialysis)?

$$434 = 500 \cdot (1 - r)^{(7)}$$

A	$r = -(\frac{434}{500})^{\frac{7}{1}} - 1$	B	$r = -(\frac{434}{500})^{\frac{1}{7}} - 1$
C	$r = +(\frac{434}{500})^{\frac{1}{7}} + 1$		

8 Rearrange this equation to solve for the rate given this model of a balance of a charitable endowment (yearly disbursements)?

$$661 = 900 \cdot (1 - r)^{(6)}$$

A	$r = -(\frac{661}{900})^{\frac{6}{1}} - 1$	B	$r = +(\frac{661}{900})^{\frac{1}{6}} + 1$
C	$r = -(\frac{661}{900})^{\frac{1}{6}} - 1$		